



Shuttle Launch Weather Forecast

Vehicle: STS-121, Discovery (OV-103)
Issued: 4 July 2006/1230Z (0830 EDT)
Valid: 4 July 2006 1832 – 1842Z (1432 – 1442 EDT)
Launch Weather Team: (321) 853-8484

Synoptic Discussion: The Bermuda high pressure ridge will remain to the north causing easterly flow across Central Florida. A low pressure system near the northern Bahamas will continue moving southwest, bringing coastal showers into the east coast of Florida. Subsidence behind the afternoon sea breeze should dissipate the coastal showers, and although inland showers and isolated thunderstorms will occur along the sea breeze, upper-level winds are from the north-northeast; therefore, anvils from weather along the sea breeze will not be a concern. The low near the Bahamas will move into Florida on Wednesday, bringing showers and thunderstorms into Florida. **Our primary concerns for launch are cumulus clouds, showers, and a crosswind at the Shuttle Landing Facility.**

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Cumulus	3/8 Scattered	3,000	5,000
Alto cumulus	2/8 Scattered	10,000	13,000
Cirrus	3/8 Scattered	25,000	28,000

Weather: Isolated showers.
Visibility: 7 miles
Wind: 070° @ 11 - 16 KT
 (60 foot pad winds)
Temperature: 82°F **RH:** 79% **Dewpoint:** 75°F

Probability of KSC weather prohibiting launch:	20%
Probability of KSC weather prohibiting tanking:	N/A
Primary concern(s): Cumulus clouds, showers, ceiling.	
Probability of KSC weather prohibiting launch for 24-hour delay	60%
Probability of KSC weather prohibiting tanking:	20%
Primary concern(s): Cumulus clouds, thunderstorms, ceiling.	
Probability of KSC weather prohibiting launch for 48-hour delay	60%
Probability of KSC weather prohibiting tanking:	10%
Primary concern(s): Cumulus clouds, thunderstorms, ceiling.	

Sunrise:	4/0630 EDT 5/0630 EDT 6/0630 EDT	Sunset:	4/2025 EDT 5/2025 EDT 6/2024 EDT
Moonrise:	4/1426 EDT 5/1522 EDT 6/1622 EDT	Moonset:	5/0147 EDT 6/0220 EDT 7/0257 EDT
		Illumination:	4 July 64% 5 July 73% 6 July 82%

Next forecast will be issued: As required.